

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.

Application Serial Number: US/09/529,206E

Source: IFW/6

Date Processed by STIC: 12-21-04

ENTERED



IFW16

RAW SEQUENCE LISTING

DATE: 12/21/2004

PATENT APPLICATION: US/09/529,206E

TIME: 10:53:49

Input Set : A:\218791.txt

Output Set: N:\CRF4\12212004\I529206E.raw

SAME

3 <110> APPLICANT: WANG, Rong-Fu
 4 ROSENBERG, Steven
 6 <120> TITLE OF INVENTION: NOVEL HUMAN CANCER ANTIGEN NY ESO-1/CAG-3 AND GENE ENCODING

8 <130> FILE REFERENCE: 218791
 10 <140> CURRENT APPLICATION NUMBER: 09/529,206E
 11 <141> CURRENT FILING DATE: 2000-06-13
 13 <150> PRIOR APPLICATION NUMBER: PCT/US98/19609
 14 <151> PRIOR FILING DATE: 1998-09-21
 16 <150> PRIOR APPLICATION NUMBER: 60/061,428
 17 <151> PRIOR FILING DATE: 1997-10-08
 19 <160> NUMBER OF SEQ ID NOS: 106
 21 <170> SOFTWARE: PatentIn version 3.2
 23 <210> SEQ ID NO: 1
 24 <211> LENGTH: 805
 25 <212> TYPE: DNA
 26 <213> ORGANISM: Homo sapiens
 28 <400> SEQUENCE: 1

29	agcagggggc gctgtgtgta ccgagaatac gagaatacct cgtggggcct gaccttctct	60
31	ctgagagccg ggcagaggct ccggagccat gcaggccgaa ggccggggca caggggggttc	120
33	gacgggcat gctgatggcc caggaggccc tggcattcct gatggcccag ggggcaatgc	180
35	tggcgcccca ggagaggcgg gtgccacggg cggcagaggt ccccggggag caggggcagc	240
37	aagggcctcg gggccgggag gaggcgcccc gcggggctcg catggcgggc cggttcagg	300
39	gctgaatgga tgttcagat gcggggccag ggggcccag agccgcctgc ttgagttcta	360
41	cctcgccatg cctttccgca caccatgga agcagagctg gccgcagga gcctggcccc	420
43	ggatgcccc cgccttcccg tgccagggt gcttctgaag gaggtcactg tgcgggcaa	480
45	catactgact atccgactga ctgctgcaga ccaccgcca ctgcagctct ccacagctc	540
47	ctgtctccag cagctttccc tgttgatgtg gatcacgcag tgctttctgc ccgtgttttt	600
49	ggctcagcct ccctcagggc agaggcgcta agcccagcct ggcgccccct cctaggtcat	660
51	gcctcctccc ctagggaatg gtcccagcac gaggggccag ttcatgtgg gggcctgatt	720
53	gtttgtcgct ggaggaggac ggcttacatg tttgtttctg tagaaaataa aactgagcta	780
55	cgaaaaaaaa aaaaaaaaaa aaaaa	805

58 <210> SEQ ID NO: 2
 59 <211> LENGTH: 540
 60 <212> TYPE: DNA
 61 <213> ORGANISM: Homo sapiens
 63 <400> SEQUENCE: 2

64	atgcaggccg aaggccgggg cacagggggt tgcagggcg atgctgatgg cccaggaggc	60
66	cctggcattc ctgatggccc agggggcaat gctggcggcc caggagaggc ggggtgccacg	120
68	ggcggcagag gtccccgggg cgcaggggca gcaaggccct cggggccggg aggaggcgcc	180
70	cgcggggggc cgcagccggc cgcgggttca gggctgaatg gatgctgcag atgcggggcc	240
72	agggggcgag agagccgcct gcttgatttc tacctcgcca tgcctttcgc gacaccattg	300
74	gaagcagagc tggcccgcag gagcctggcc caggatgccc caccgcttcc cgtgccagg	360
76	gtgcttctga aggagttcac tgtgtccggc aacatactga ctatccgact gactgctgca	420

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78 gaccaccgcc aactgcagct ctccatcagc tcctgtctcc agcagctttc cctgttgatg      480
80 tggatcacgc agtgctttct gcccggtgtt ttggctcagc ctccctcagg gcagaggcgc      540
83 <210> SEQ ID NO: 3
84 <211> LENGTH: 174
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86 <213> ORGANISM: Homo sapiens
88 <400> SEQUENCE: 3
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91 caggagaggg ggggtgccac ggcggcagag gtccccgggg cgcaggggca gcaagggcct      120
93 cggggccggg aggagggcgc ccgcggggtc cgcattggcg cgcggcttca gggc          174
96 <210> SEQ ID NO: 4
97 <211> LENGTH: 180
98 <212> TYPE: PRT
99 <213> ORGANISM: Homo sapiens
101 <400> SEQUENCE: 4
103 Met Gln Ala Glu Gly Arg Gly Thr Gly Gly Ser Thr Gly Asp Ala Asp
104 1              5              10              15
107 Gly Pro Gly Gly Pro Gly Ile Pro Asp Gly Pro Gly Gly Asn Ala Gly
108              20              25              30
111 Gly Pro Gly Glu Ala Gly Ala Thr Gly Gly Arg Gly Pro Arg Gly Ala
112              35              40              45
115 Gly Ala Ala Arg Ala Ser Gly Pro Gly Gly Gly Ala Pro Arg Gly Pro
116              50              55              60
119 His Gly Gly Ala Ala Ser Gly Leu Asn Gly Cys Cys Arg Cys Gly Ala
120 65              70              75              80
123 Arg Gly Pro Glu Ser Arg Leu Leu Glu Phe Tyr Leu Ala Met Pro Phe
124              85              90              95
127 Ala Thr Pro Met Glu Ala Glu Leu Ala Arg Arg Ser Leu Ala Gln Asp
128              100             105             110
131 Ala Pro Pro Leu Pro Val Pro Gly Val Leu Leu Lys Glu Phe Thr Val
132              115             120             125
135 Ser Gly Asn Ile Leu Thr Ile Arg Leu Thr Ala Ala Asp His Arg Gln
136              130             135             140
139 Leu Gln Leu Ser Ile Ser Ser Cys Leu Gln Gln Leu Ser Leu Leu Met
140 145             150             155             160
143 Trp Ile Thr Gln Cys Phe Leu Pro Val Phe Leu Ala Gln Pro Pro Ser
144              165             170             175
147 Gly Gln Arg Arg
148              180
151 <210> SEQ ID NO: 5
152 <211> LENGTH: 58
153 <212> TYPE: PRT
154 <213> ORGANISM: Homo sapiens
156 <400> SEQUENCE: 5
158 Met Leu Met Ala Gln Glu Ala Leu Ala Phe Leu Met Ala Gln Gly Ala
159 1              5              10              15
162 Met Leu Ala Ala Gln Glu Arg Arg Val Pro Arg Ala Ala Glu Val Pro
163              20              25              30
166 Gly Ala Gln Gly Gln Gln Gly Pro Arg Gly Arg Glu Glu Ala Pro Arg

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167          35          40          45
170 Gly Val Arg Met Ala Ala Arg Leu Gln Gly
171          50          55
174 <210> SEQ ID NO: 6
175 <211> LENGTH: 9
176 <212> TYPE: PRT
177 <213> ORGANISM: Homo sapiens
179 <400> SEQUENCE: 6
181 Ala Gln Pro Pro Ser Gly Gln Arg Arg
182 1          5
185 <210> SEQ ID NO: 7
186 <211> LENGTH: 9
187 <212> TYPE: PRT
188 <213> ORGANISM: Homo sapiens
190 <400> SEQUENCE: 7
192 Thr Pro Met Glu Ala Glu Leu Ala Arg
193 1          5
196 <210> SEQ ID NO: 8
197 <211> LENGTH: 9
198 <212> TYPE: PRT
199 <213> ORGANISM: Homo sapiens
201 <400> SEQUENCE: 8
203 Pro Met Glu Ala Glu Leu Ala Arg Arg
204 1          5
207 <210> SEQ ID NO: 9
208 <211> LENGTH: 9
209 <212> TYPE: PRT
210 <213> ORGANISM: Homo sapiens
212 <400> SEQUENCE: 9
214 Gly Ala Thr Gly Gly Arg Gly Pro Arg
215 1          5
218 <210> SEQ ID NO: 10
219 <211> LENGTH: 9
220 <212> TYPE: PRT
221 <213> ORGANISM: Homo sapiens
223 <400> SEQUENCE: 10
225 Gly Pro Arg Gly Ala Gly Ala Ala Arg
226 1          5
229 <210> SEQ ID NO: 11
230 <211> LENGTH: 9
231 <212> TYPE: PRT
232 <213> ORGANISM: Homo sapiens
234 <400> SEQUENCE: 11
236 Leu Ala Gln Pro Pro Ser Gly Gln Arg
237 1          5
240 <210> SEQ ID NO: 12
241 <211> LENGTH: 9
242 <212> TYPE: PRT
243 <213> ORGANISM: Homo sapiens

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Input Set : A:\218791.txt

Output Set: N:\CRF4\12212004\I529206E.raw

245 <400> SEQUENCE: 12
247 Val Ser Gly Asn Ile Leu Thr Ile Arg
248 1 5
251 <210> SEQ ID NO: 13
252 <211> LENGTH: 9
253 <212> TYPE: PRT
254 <213> ORGANISM: Homo sapiens
256 <400> SEQUENCE: 13
258 Ile Arg Leu Thr Ala Ala Asp His Arg
259 1 5
262 <210> SEQ ID NO: 14
263 <211> LENGTH: 9
264 <212> TYPE: PRT
265 <213> ORGANISM: Homo sapiens
267 <400> SEQUENCE: 14
269 Ser Gly Pro Gly Gly Ala Pro Arg
270 1 5
273 <210> SEQ ID NO: 15
274 <211> LENGTH: 10
275 <212> TYPE: PRT
276 <213> ORGANISM: Homo sapiens
278 <400> SEQUENCE: 15
280 Thr Val Ser Gly Asn Ile Leu Thr Ile Arg
281 1 5 10
284 <210> SEQ ID NO: 16
285 <211> LENGTH: 10
286 <212> TYPE: PRT
287 <213> ORGANISM: Homo sapiens
289 <400> SEQUENCE: 16
291 Thr Ile Arg Leu Thr Ala Ala Asp His Arg
292 1 5 10
295 <210> SEQ ID NO: 17
296 <211> LENGTH: 10
297 <212> TYPE: PRT
298 <213> ORGANISM: Homo sapiens
300 <400> SEQUENCE: 17
302 Ala Thr Pro Met Glu Ala Glu Leu Ala Arg
303 1 5 10
306 <210> SEQ ID NO: 18
307 <211> LENGTH: 10
308 <212> TYPE: PRT
309 <213> ORGANISM: Homo sapiens
311 <400> SEQUENCE: 18
313 Phe Leu Ala Gln Pro Pro Ser Gly Gln Arg
314 1 5 10
317 <210> SEQ ID NO: 19
318 <211> LENGTH: 10
319 <212> TYPE: PRT
320 <213> ORGANISM: Homo sapiens

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Input Set : A:\218791.txt

Output Set: N:\CRF4\12212004\I529206E.raw

322 <400> SEQUENCE: 19
324 Thr Pro Met Glu Ala Glu Leu Ala Arg Arg
325 1 5 10
328 <210> SEQ ID NO: 20
329 <211> LENGTH: 10
330 <212> TYPE: PRT
331 <213> ORGANISM: Homo sapiens
333 <400> SEQUENCE: 20
335 Arg Cys Gly Ala Arg Gly Pro Glu Ser Arg
336 1 5 10
339 <210> SEQ ID NO: 21
340 <211> LENGTH: 10
341 <212> TYPE: PRT
342 <213> ORGANISM: Homo sapiens
344 <400> SEQUENCE: 21
346 Ala Ala Ser Gly Leu Asn Gly Cys Cys Arg
347 1 5 10
350 <210> SEQ ID NO: 22
351 <211> LENGTH: 10
352 <212> TYPE: PRT
353 <213> ORGANISM: Homo sapiens
355 <400> SEQUENCE: 22
357 Leu Ala Gln Pro Pro Ser Gly Gln Arg Arg
358 1 5 10
361 <210> SEQ ID NO: 23
362 <211> LENGTH: 10
363 <212> TYPE: PRT
364 <213> ORGANISM: Homo sapiens
366 <400> SEQUENCE: 23
368 Arg Gly Pro Arg Gly Ala Gly Ala Ala Arg
369 1 5 10
372 <210> SEQ ID NO: 24
373 <211> LENGTH: 10
374 <212> TYPE: PRT
375 <213> ORGANISM: Homo sapiens
377 <400> SEQUENCE: 24
379 Leu Asn Gly Cys Cys Arg Cys Gly Ala Arg
380 1 5 10
383 <210> SEQ ID NO: 25
384 <211> LENGTH: 10
385 <212> TYPE: PRT
386 <213> ORGANISM: Homo sapiens
388 <400> SEQUENCE: 25
390 Ala Ser Gly Pro Gly Gly Gly Ala Pro Arg
391 1 5 10
394 <210> SEQ ID NO: 26
395 <211> LENGTH: 15
396 <212> TYPE: PRT
397 <213> ORGANISM: Homo sapiens

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/529,206E

DATE: 12/21/2004
TIME: 10:53:50

Input Set : A:\218791.txt
Output Set: N:\CRF4\12212004\I529206E.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:54; Xaa Pos. 1,2,3,11

VERIFICATION SUMMARY

PATENT APPLICATION: **US/09/529,206E**

DATE: 12/21/2004

TIME: 10:53:50

Input Set : **A:\218791.txt**

Output Set: **N:\CRF4\12212004\I529206E.raw**

L:728 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54 after pos.:0